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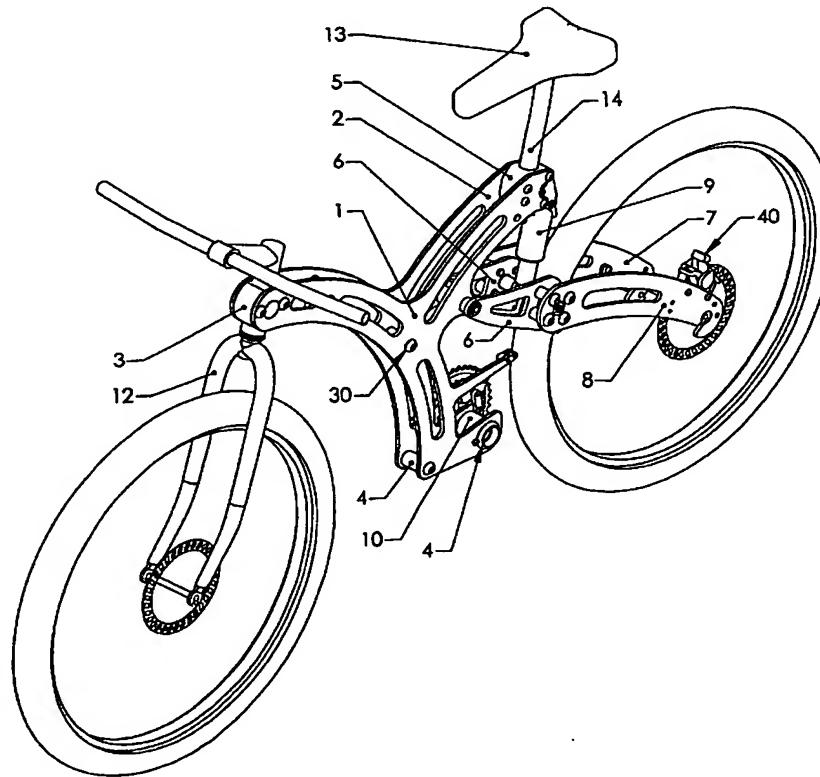
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(54) Title: FOLDING BICYCLE CONSTRUCTED FROM PLATE FRAME ELEMENTS



(57) Abstract: A bicycle frame design using plateframe structural elements for a high performance, full suspension bicycle having the ability to fold up in a package of compact size is provided. The main frame is formed by opposed plate frame elements (1, 2), patterned in the ergonomic dimensions and component arrangements therefrom used for contemporary mountain bikes. The patterned plate frame elements (1, 2) are cut from plate stock in a way that locates and mounts the operative elements in positions required for bike function. Such plate frame structure is of modular, lightweight, and weldless construction. A mechanically simple, lightweight rear shock absorbing system (7, 8, 9) is incorporated. The design routes cables in an internal arrangement, separating them from rider or other attached components or accessories on the inboard side of the plateframe structure. Overall geometry and dimensions of this configuration are adjustable to provide a universal fit for riders of various sizes. The opposed plate frame elements can be separate plates structures, or can be formed by folding a single blank having therein both opposed plate frame elements.

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